

Student Name: Edwin Raj S

Seat No: 232

Project ID: 32

Project title: IIC Data Management

Technical Stack:

Frontend	HTML, CSS, Javascript
Backend	PHP Laravel
Database	MySQL
API	RESTful API

1. Introduction

1.1. Purpose:

This document is to describe the process and the workflow of the IIC Data Management (IIC Portal). It will explain the systematic flow and features of the system.

1.2. Problem Statement

The nonsystematic and randomness of the data make the task of uploading the report file to the IIC Portal more time consuming and difficult with problems like:

1. **Inconsistent Formatting:** When data is not structured consistently throughout the report, it becomes challenging to extract and organize the necessary information for uploading.

2. **Data Errors:** Errors in the data, such as typos, inaccuracies, or inconsistencies, can complicate the uploading process and may require manual correction before submission.
3. **Duplicate Entries:** Duplicate entries can cause confusion and errors during the upload process, requiring extra time to identify and resolve these issues.
4. **File Size Limitations:** Large file sizes can make it difficult to upload the report to the IIC Portal, especially if there are restrictions on the maximum file size allowed.

And many more.

1.3. Scope of the Project:

- This system will serve as a portal which enables the student to upload the stage 1 data for the Self-driven activity and wait for the approval, on successful verification the student can conduct the specific activity on the allotted venue and can upload the stage 2 data for the activity within the deadline and claim their rewards.
- The Administrator can have detailed and organized information on the Self-driven activity which is conducted by the students group. Other than that, the administrator can upload the details on Calendar activity, Celebration activity, MIC-driven activity and also on EDC and Startups.

2. System Overview:

2.1. Users:

1. Students (user):

The users are enabled to only view the Celebration, Calendar, MIC driven, EDC and startups activities conducted by the organization.

The users are only enabled to add the Self-driven activity on their own ideas and conduct the activity and upload the proof for the verification within the deadline

2. Staffs (admins):

The users are given with full control over the portal they are:

- Enabled to add Celebration, Calendar, MIC-driven activities.
- Enabled to add EDC and Startups events.
- Enabled to approve or reject the activities proposed by the student organizations at any time.

2.2. Features:

1. Authentication:

With Google OAuth 2.0 integration, login is streamlined for users within your organization (e.g., @bitsathy.ac.in) while unauthorized accounts are restricted.

2. Creating Self-driven activity:

Students can propose their own initiatives for entrepreneurship or innovation through the IIC Portal. Upon approval, completing the activity and submitting proof unlocks their rewards.

3. Activity Status:

Students can view their activity status in the event logger page under the self-driven activity.

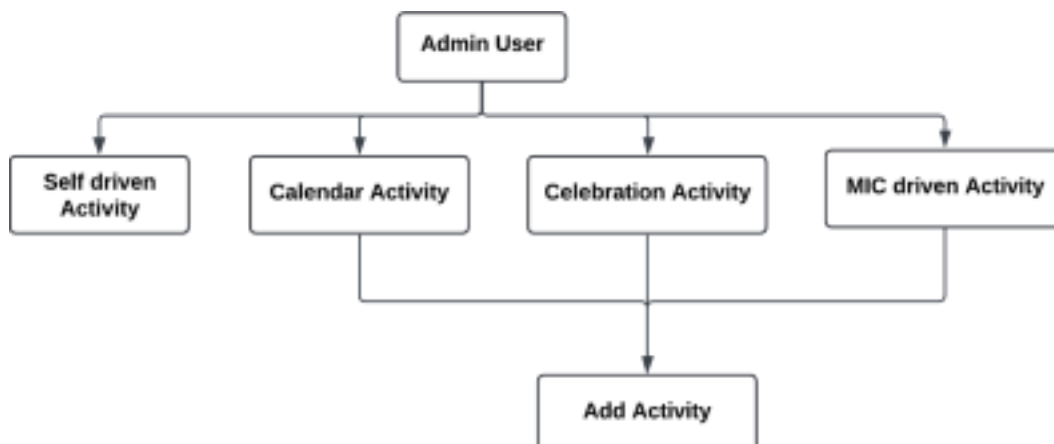
4. Admin Access:

Admin can approve or reject the activity at any time and also add new activity on the IIC Portal.

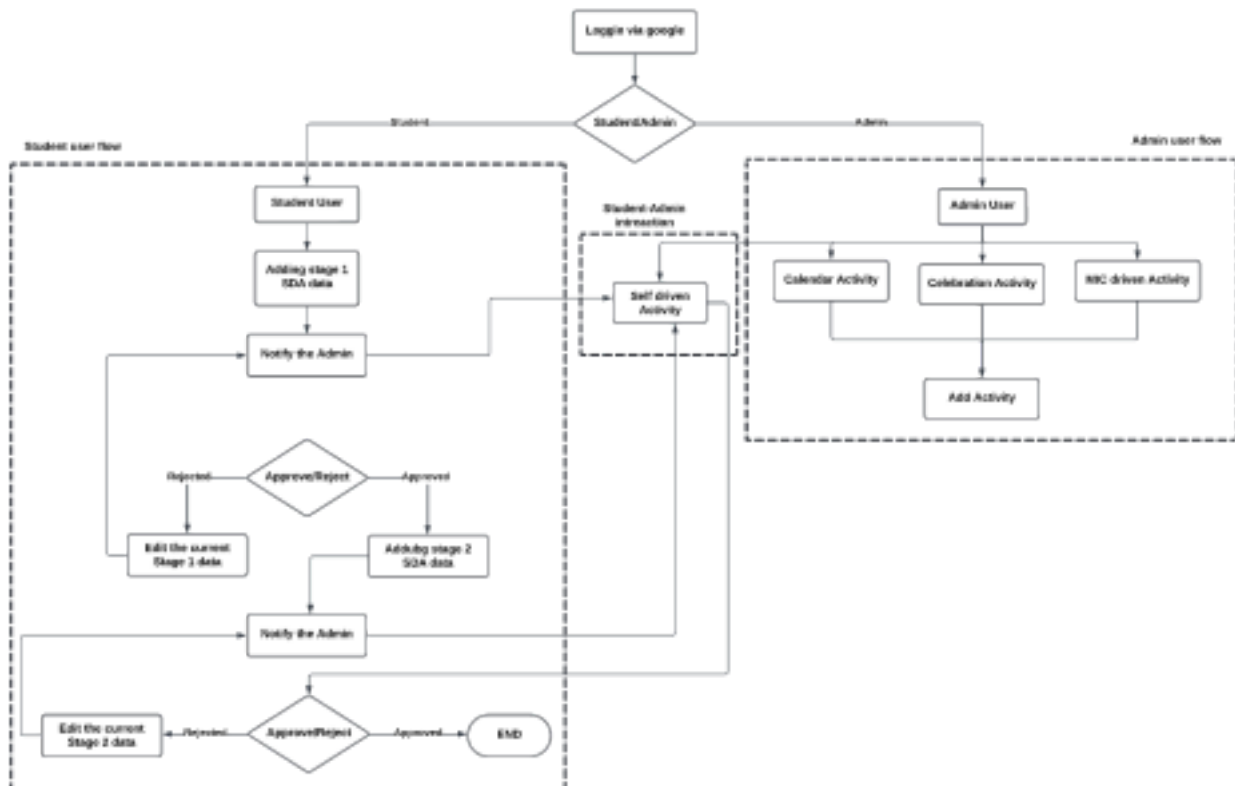
Student Interaction:



Admin Interaction:



3. Flow chart:



3.1. Functional Requirements:

1. User Management:

The IIC Portal provides user management such as:

- The system must allow students to register and create accounts using their institutional email addresses.
- The system should have functionalities for student profile management

2. Activity Proposal System:

The IIC Portal must have the followings:

- The system should allow students to submit proposals for their self-driven activities.
- Proposals should include details like activity description, objective, time and outcome.

3.Approval Workflow:

The IIC Portal should have a designated team or role responsible for reviewing student proposals. The system should facilitate the review process with functionalities like status tracking, reviewer comments, and approval/rejection decisions.

4.Proof Submission:

The following are the requirements for proof submission:

- Once a proposal is approved, students should be able to submit proof of completing their activity.
- The system should allow uploading documents, photos, or other evidence formats.
- It should allow the students to edit the logger which has been rejected.

3.2. Non-Functional Requirements:

1. Performance:

The system should be able to handle a high volume of student users and activity proposals without significant delays. Page load times and response times for user interactions should be within acceptable limits.

2. Security:

- The system should employ secure user authentication methods.
- Data security is crucial, ensuring student information, activity proposals, and proof of completion are protected from unauthorized access.

3. Scalability:

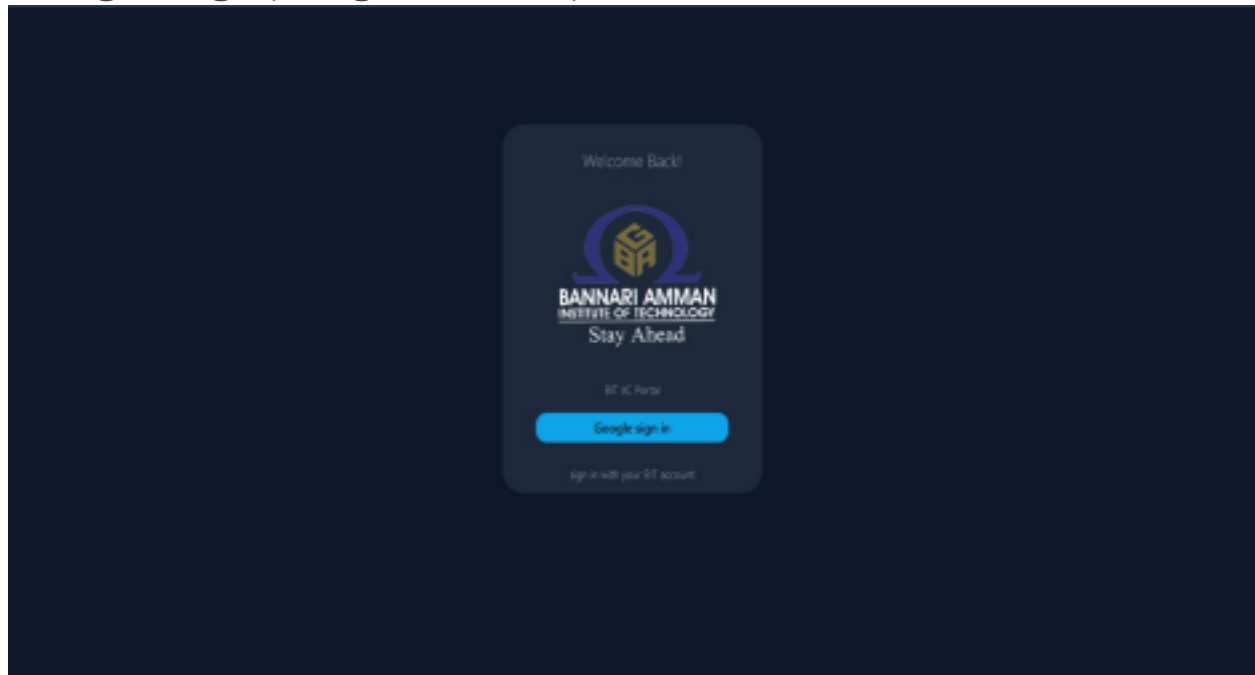
The system should be designed to accommodate future growth in the number of users, activities, and reward programs. This might involve using scalable architecture or infrastructure.

4. Error Handling:

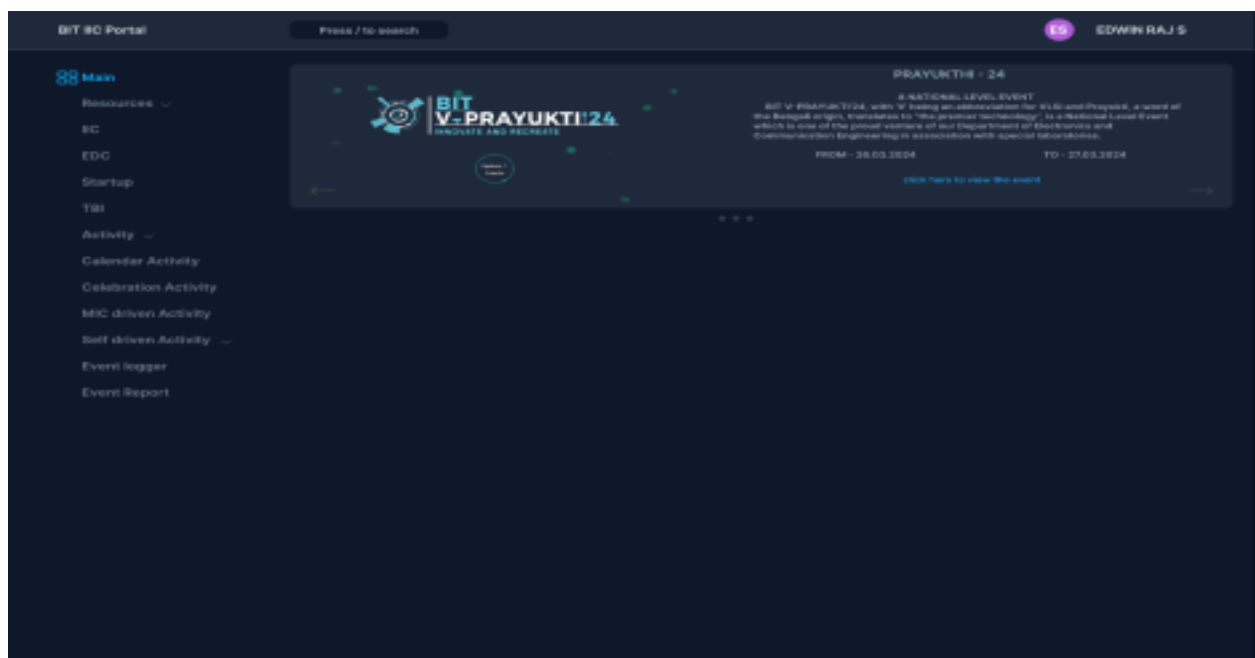
The system should handle errors gracefully, providing clear and informative messages to users encountering issues during proposal submissions, proof uploads, etc. Robust error logging can be beneficial for troubleshooting and identifying potential problems.

4. Prototype of the Project:

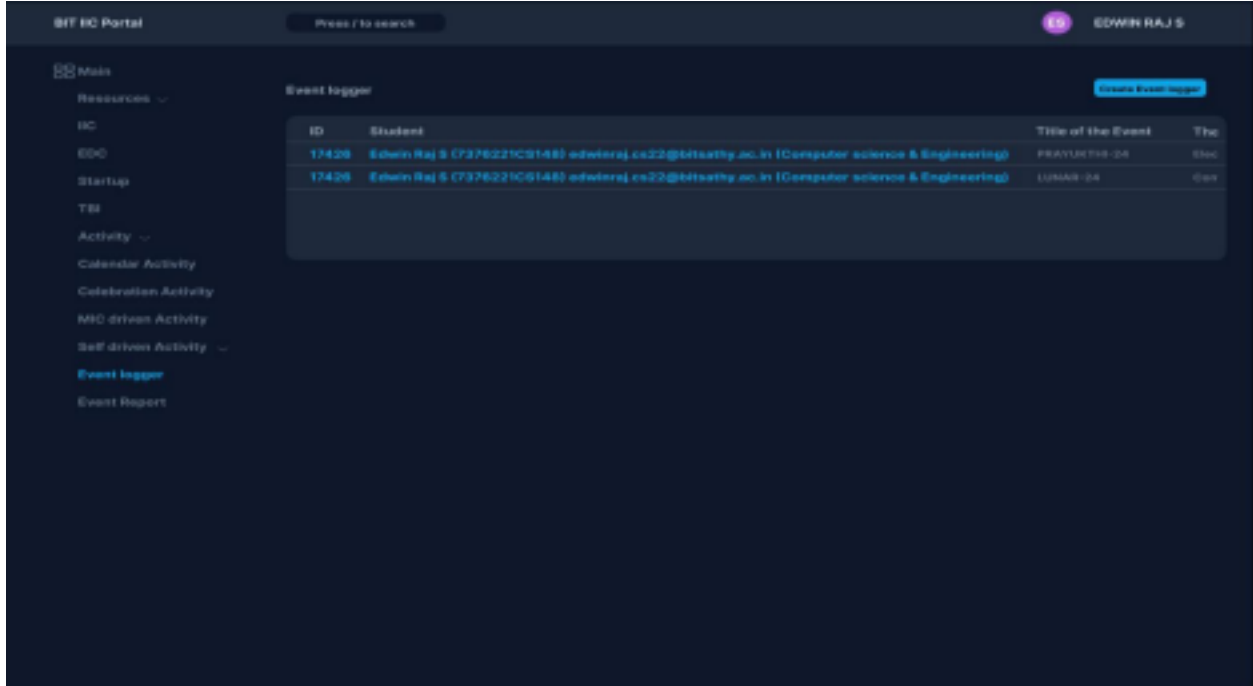
1. Login Page (using OAuth 2.0):



2. Landing Page:



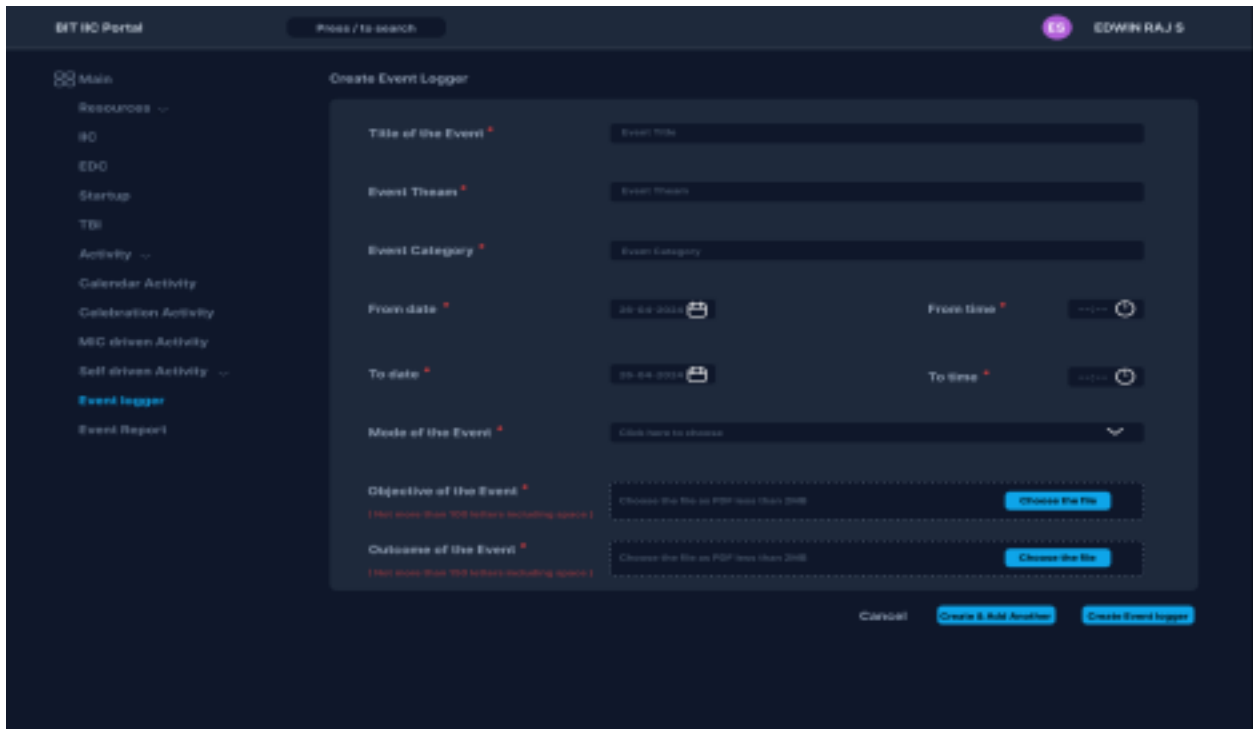
3. Adding Self-driven activity:



The screenshot displays the BIT INC Portal interface. On the left, a sidebar menu includes 'Main', 'Resources', 'IRC', 'EDG', 'Startup', 'TBI', 'Activity', 'Calendar Activity', 'Celebration Activity', 'MNC driven Activity', 'Self driven Activity', 'Event logger', and 'Event Report'. The 'Event logger' option is highlighted. The main content area is titled 'Event logger' and features a 'Create Event logger' button. Below this is a table with the following data:

ID	Student	Title of the Event	The
17426	Edwin Raj S (7376221C6148) edwinraj.cs22@bittsathy.ac.in (Computer science & Engineering)	PRAYATHA -24	Shre
17426	Edwin Raj S (7376221C6148) edwinraj.cs22@bittsathy.ac.in (Computer science & Engineering)	LUNAR -24	Can

4. Creating Self-driven activity:

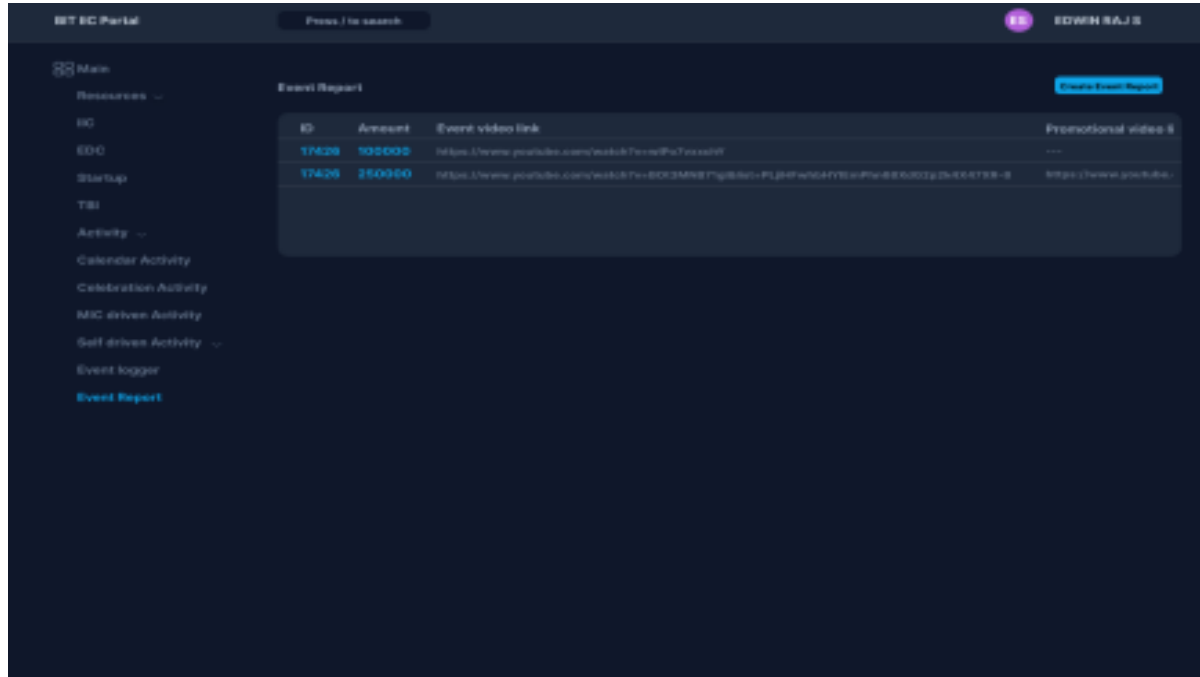


The screenshot displays the BIT INC Portal interface for creating a self-driven activity. The sidebar menu is the same as in the previous screenshot, with 'Event logger' highlighted. The main content area is titled 'Create Event Logger' and contains a form with the following fields:

- Title of the Event ***: Text input field.
- Event Theme ***: Text input field.
- Event Category ***: Text input field.
- From date ***: Date picker (29-04-2024).
- From time ***: Time picker (10:00).
- To date ***: Date picker (29-04-2024).
- To time ***: Time picker (10:00).
- Mode of the Event ***: Dropdown menu (Choose here to choose).
- Objective of the Event ***: Text area (Choose the file as PDF less than 2MB). A button 'Choose the file' is next to it.
- Outcomes of the Event ***: Text area (Choose the file as PDF less than 2MB). A button 'Choose the file' is next to it.

At the bottom of the form, there are three buttons: 'Cancel', 'Create & Add Another', and 'Create Event logger'.

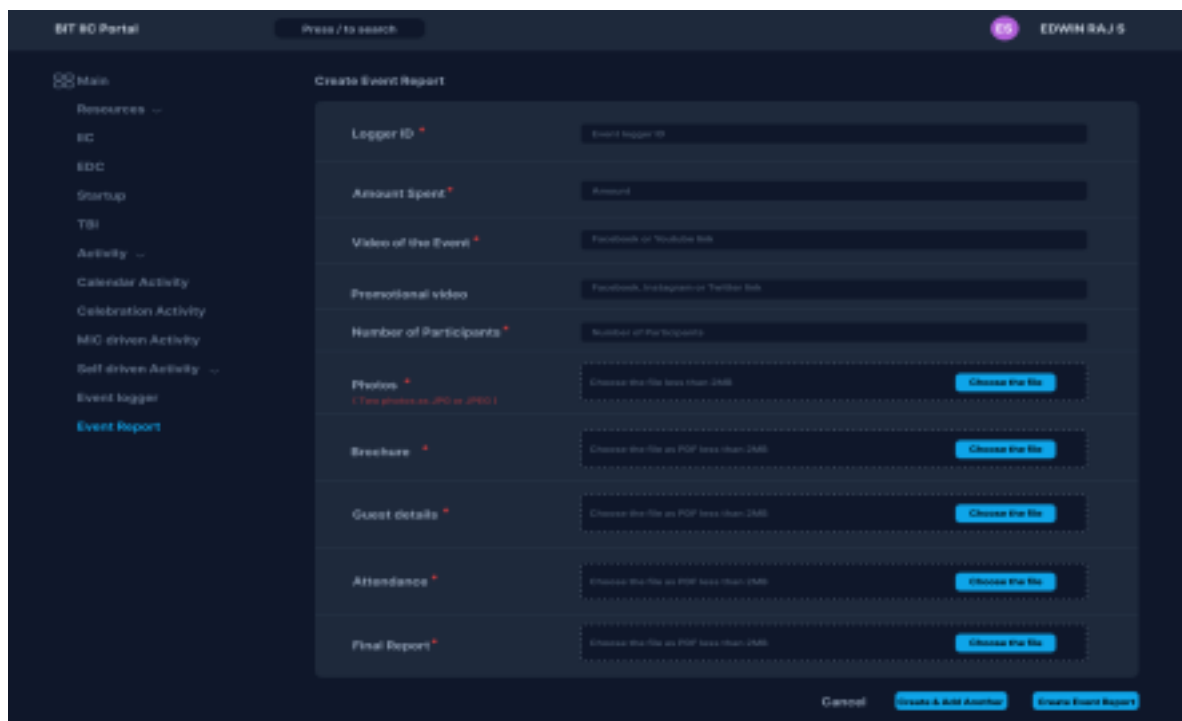
5. Adding Self-driven activity report:



The screenshot shows the BIT IC Portal interface. On the left is a sidebar with a 'Main' menu and a 'Resources' section containing links to IC, IDC, Startup, TBI, Activity, Calendar Activity, Celebration Activity, MIG driven Activity, Self driven Activity, Event logger, and Event Report. The 'Event Report' link is highlighted. The main content area is titled 'Event Report' and features a 'Create Event Report' button in the top right. Below the title is a table with the following data:

ID	Amount	Event video link	Promotional video link
17428	100000	https://www.youtube.com/watch?v=adPhTmcad0Y	---
17428	250000	https://www.youtube.com/watch?v=8Q3M98T7g08&list=PL8dFw6dA7Y6wFh6B86003p2u8C8T5B-8	https://www.youtube.com/watch?v=8Q3M98T7g08&list=PL8dFw6dA7Y6wFh6B86003p2u8C8T5B-8

6. Creating Self-driven activity report:



The screenshot shows the 'Create Event Report' form in the BIT IC Portal. The form contains the following fields and options:

- Logger ID ***: Event logger ID
- Amount Spent ***: Amount
- Video of the Event ***: Facebook or Youtube link
- Promotional video**: Facebook, Instagram or Twitter link
- Number of Participants ***: Number of participants
- Photos ***: Choose the file less than 2MB. (File photos as JPG or JPEG) [Choose the file](#)
- Brochure ***: Choose the file as PDF less than 2MB. [Choose the file](#)
- Guest details ***: Choose the file as PDF less than 2MB. [Choose the file](#)
- Attendance ***: Choose the file as PDF less than 2MB. [Choose the file](#)
- Final Report ***: Choose the file as PDF less than 2MB. [Choose the file](#)

At the bottom of the form, there are three buttons: 'Cancel', 'Create & Add Another', and 'Create Event Report'.

7. Admin page for self-driven activity:

The screenshot shows the 'Create Event Logger' form in the BIT SC Portal. The form is titled 'Create Event Logger' and is located on the right side of the page. The left sidebar contains a navigation menu with the following items: Main, Resources, SC, EDC, Startup, TBI, Activity, Calendar Activity, Celebration Activity, MIG driven Activity, Self driven Activity, Event Logger (highlighted), and Event Report. The form fields are as follows:

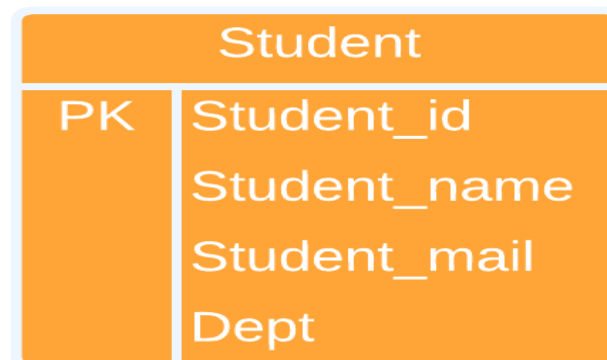
- Title of the Event *
- Event Theme *
- Event Category *
- From date * (28-08-2024)
- From time * (---:--:--)
- To date * (28-08-2024)
- To time * (---:--:--)
- Mode of the Event * (Event Mode to choose)
- Objective of the Event * (Choose the file as PDF less than 2MB) [Choose the file]
- Outcome of the Event * (Choose the file as PDF less than 2MB) [Choose the file]

At the bottom right of the form, there are two buttons: 'Approve' (green) and 'Reject' (red).

5. Database Management:

5.1. Data schema:

1. Student Entity:



2. Stage-1 Entity:

Stage-1	
PK	Logger_id
FK	Student_id
	Event_title
	Event_category
	Event_theme
	Date
	Time
	Mode
	Objective
	Outcome

3. Stage-2 Entity:

Stage-2	
FK	Logger_id
	Amount
	No. of participants
	Brochure
	Guest
	Attendance
	Video_link
	Promotional
	Photos
	Final_report

4. Admin Entity:

Admin	
PK	Admin_id Admin_name Admin_mail

5. Activity:

Activity	
PK	Logger_id Event_title Event_category Event_theme Date Time Mode Objective Outcome Amount No. of participants Brochure Guest Attendance Video_link Promotional Photos Final_report Type_of_activity

Entity Relationship Diagram (ERD)

